

Dr. Saumya Maria Jacob

Assistant Professor & Head of Department (Chemistry)

Department of Chemistry, S E S College, Sreekandapuram

Specialization: Computational Chemistry

PROFESSIONAL SUMMARY

Accomplished Assistant Professor and Head of Department with over 8 years of teaching and research experience in Higher Education (joined service on January 9, 2018). Specialist in Computational Chemistry, molecular modeling, and modern teaching methodologies. Proven track record in departmental administration, coordinating national accreditation & funding initiatives (IQAC & RUSA 3.0), and conducting computational research on non-classical organic structures.

TEACHING & RESEARCH EXPERIENCE

Assistant Professor & Head of Department | January 9, 2018 – Present

Department of Chemistry, S E S College, Sreekandapuram

- Delivering undergraduate and postgraduate lectures in Physical, Organic, and Computational Chemistry.
- Serving as Head of the Department, overseeing curriculum delivery, laboratory operations, and academic planning.
- Guiding student research projects and introducing modern digital e-learning tools into classroom instruction.
- Managing university examination duties, practical evaluations, and valuation camps.

ACADEMIC QUALIFICATIONS & NATIONAL CERTIFICATIONS

- **CSIR-UGC NET for Lectureship (LS)** — Chemical Sciences
All India Rank: AIR 26
- **Ph.D. in Chemistry** — Kannur University
Thesis Title: A Computational Search for Non-Classical Organic Molecules
- **M.Sc. in Chemistry** — University of Madras
- **PG Diploma in Computational Sciences** — Kannur University

INSTITUTIONAL LEADERSHIP & ADMINISTRATIVE ROLES

Leadership Positions:

- Head of the Department, Department of Chemistry
- IQAC Criterion Coordinator
- RUSA 3.0 Coordinator
- Convener, E-Learning

Committee Memberships:

- Academic and Research Committee
- IQAC Committee

- RUSA Project Monitoring Committee
- Staff Council (College Council / Academic Council)
- Purchase Committee
- College Counselling Cell & Women's Welfare and Empowerment Cell
- Book Club, Maths Club, Science Club, Student's Aid Fund, College Calendar Committee

PEER-REVIEWED PUBLICATIONS

1. Raghi, K. R., Sherin, D. R., Archana, T. M., Saumya, M. J., Sajesha, K. P., & Manojkumar, T. K. (2022). Identification of Potent ABL Inhibitors from Coumestrol: An Integrative In Silico Approach. *Journal of Computational Biophysics and Chemistry*, 21(8), 967–979.
2. Saumya, M. J., Raghi, K. R., Sherin, D. R., Haridas, K. R., & Manojkumar, T. K. (2020). Butterfly Methanes: Designing a Novel Class of anti-van't Hoff Carbons. *ChemPhysChem*, 21(20), 2272–2278.
3. Raghi, K. R., Sherin, D. R., Saumya, M. J., Arun, P. S., Sobha, V. N., & Manojkumar, T. K. (2018). Computational Study of Molecular Electrostatic Potential, Docking and Dynamics Simulations of Gallic Acid Derivatives as ABL Inhibitors. *Computational Biology and Chemistry*, 74, 239–246.
4. Saumya, M. J., Sherin, D. R., Raghi, K. R., & Manojkumar, T. K. (2017). Design of Novel Planar Tetracoordinate Carbon Molecules Containing Lithium. *Journal of Chemistry and Chemical Sciences*, 7(12), 1129–1134.
5. Raghi, K. R., Saumya, M. J., Sherin, D. R., & Manojkumar, T. K. (2017). An In Silico Approach to Analyze the Novel Derivatives of Protocatechuic acid with Thiadiazole as Effective Protein Kinase Inhibitors Against ABL in CML. *Journal of Chemistry and Chemical Sciences*, 7(11), 1071–1078.

FACULTY DEVELOPMENT & CERTIFICATIONS

- Refresher Course in Information Science and AI for Modern Education (08.01.2026 – 22.01.2026)
- Self-Presentation (Self-Paced Learning) — Wadhvani Foundation (Jul 09, 2025)
- Foundations of Career Navigating and Coaching — Goodwill Academy / Coursera (Jan 21, 2025)
- FDP on "Research Paper Writing" — School of Business Administration-BPIT, Research Foundation of India & RFI-CARE (Aug 21 – 26, 2023)
- FDP on "Innovative Teaching and Learning Pedagogy" — Shri Shradha Nath PG College, RFI & RFI-CARE (Jul 26 – 30, 2023)
- Interdisciplinary Refresher Course on "Research Methodology" (Grade A+) — TLC, Ramanujan College, University of Delhi (Jul 20 – Aug 03, 2021)
- 4-Week Induction/Orientation Programme for Faculty in Higher Education (Grade A+) — TLC, Ramanujan College, University of Delhi (May 18 – Jun 17, 2021)
- FDP on "Managing Online Classes and Co-creating MOOCs 2.0" — TLC, Ramanujan College, University of Delhi (May 18 – Jun 03, 2020)
- Short-Term FDP: "ERUDITION-2020" — PG Dept. of Chemistry, Payyanur College & KSHEC (May 23 – 28, 2020)